

Title (en)
BATTERY MODULE, BATTERY PACK, AND VEHICLE

Title (de)
BATTERIEMODUL, BATTERIEPACK UND FAHRZEUG

Title (fr)
MODULE DE BATTERIE, BLOC-BATTERIE ET VÉHICULE

Publication
EP 4027404 A1 20220713 (EN)

Application
EP 20892908 A 20200820

Priority
• KR 20190152649 A 20191125
• KR 2020011127 W 20200820

Abstract (en)
Provided are a battery module with improved safety with respect to a fire or thermal runaway. The battery module includes a cell assembly comprising at least two battery cells; a module housing comprising an inner space accommodating the cell assembly, and comprising a circulation hole so that the inner space is connected to an outside; a mesh member having a mesh structure and provided in the circulation hole of the module housing; and a sealing member provided at a position facing the mesh member and configured to expand a volume at more than a predetermined temperature to seal a mesh hole of the mesh member.

CPC (source: CN EP KR US)
H01M 50/204 (2021.01 - CN); **H01M 50/211** (2021.01 - EP); **H01M 50/24** (2021.01 - CN KR US); **H01M 50/244** (2021.01 - CN); **H01M 50/249** (2021.01 - CN); **H01M 50/30** (2021.01 - CN US); **H01M 50/375** (2021.01 - EP); **H01M 50/383** (2021.01 - CN KR US); **H01M 50/394** (2021.01 - EP); **H01M 10/613** (2015.04 - EP); **H01M 2200/10** (2013.01 - CN KR); **H01M 2220/20** (2013.01 - CN KR US); **Y02E 60/10** (2013.01 - EP)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 4027404 A1 20220713; **EP 4027404 A4 20230125**; AU 2020393448 A 20220407; CN 114424394 A 20220429; JP 2022544967 A 20221024; JP 7366236 B2 20231020; KR 20210063939 A 20210602; US 2022271387 A1 20220825; WO 2021107336 A1 20210603

DOCDB simple family (application)
EP 20892908 A 20200820; AU 2020393448 A 20200820; CN 202080066050 A 20200820; JP 2022509691 A 20200820; KR 20190152649 A 20191125; KR 2020011127 W 20200820; US 202017628703 A 20200820